

Exhibit B
Foreign Patents and Patent Applications

Outside #	Title	Serial #	Filing Type	Date Filed	Status
14768-7006	Deformable Scaffolding Multicellular Stent	2333764	Foreign	13-May-99	Pending
14768-7009	Deformable Scaffolding Multicellular Stent	2000-551692	Foreign	13-May-99	Pending
14768-7011	Apparatus for Creating a Channel between Adjacent Body Lumens	2395246	Foreign	3-Jan-01	Pending
14768-7014	Apparatus for Creating a Channel between Adjacent Body Lumens	26288/01	Foreign	3-Jan-01	Pending
212/047EP	Transvascular TMR Device and Method	97949393.9	Foreign	7-May-99	Pending
233/023CA	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	2325032	Foreign	21-Sep-00	Pending
233/023EP	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	99909978.1	Foreign	22-Sep-00	Pending
233/023IL	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	138298	Foreign	22-Sep-00	Pending
233/023JP	Systems and Methods for Delivery Drugs to Selected Locations within the Body	2000-537589	Foreign	22-Sep-00	Pending
233/023MX	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	009335	Foreign	22-Sep-00	Pending
234/149AU2	Deformable Scaffolding Multicellular Stent	2002302040	Foreign	15-Nov-02	Pending
234/149EP	Deformable Scaffolding Multicellular Stent	99925626.6	Foreign	13-May-99	Pending
259/301EP	Apparatus for Creating a Channel between Adjacent Body Lumens	TBA	Foreign	3-Jan-01	Pending
259/301JP	Apparatus for Creating a Channel between Adjacent Body Lumens	2001-549556	Foreign	3-Jan-01	Pending
TRNSV-001AUG	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	23046/01	Foreign/ Divisional	16-Feb-01	Pending
TRNSV-001CA	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	2234361	Foreign	8-Apr-98	Pending
TRNSV-001CH	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	96199063.5	Foreign	11-Jun-98	Pending
TRNSV-001EP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	969336499.1	Foreign	13-Apr-98	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-001GEP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	1120160.5	Foreign/ Divisional	22-Aug-01	Pending
TRNSV-001IS	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	124038	Foreign	9-Apr-98	Pending
TRNSV-001GIS	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	151563	Foreign/ Divisional	2-Sep-02	Pending
TRNSV-001JP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	9/515,288	Foreign	13-Apr-98	Pending
TRNSV-001MX	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	982870	Foreign	13-Apr-98	Pending
TRNSV-001RU	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	98108600	Foreign	10-Apr-98	Pending
TRNSV-003AUG	A Device, System and Method for Interstitial Transvascular Intervention	40303/01	Foreign/ Divisional	30-Apr-01	Pending
TRNSV-003CA	A Device, System and Method for Interstitial Transvascular Intervention	2234389	Foreign	6-Jun-98	Pending
TRNSV-003CH	A Device, System and Method for Interstitial Transvascular Intervention	96198967.X	Foreign	13-Apr-98	Pending
TRNSV-003EP	A Device, System and Method for Interstitial Transvascular Intervention	96938622.6	Foreign	13-May-98	Pending
TRNSV-003EPG	A Device, System and Method for Interstitial Transvascular Intervention	03003995.2	Foreign/ Divisional	24-Feb-03	Pending
TRNSV-003IL	A Device, System and Method for Interstitial Transvascular Intervention	124037	Foreign	9-Apr-98	Pending
TRNSV-003JP	A Device, System and Method for Interstitial Transvascular Intervention	9-515211	Foreign	10-Apr-98	Pending
TRNSV-003MX	A Device, System and Method for Interstitial Transvascular Intervention	982872	Foreign	13-Apr-98	Pending
TRNSV-003RU	A Device, System and Method for Interstitial Transvascular Intervention	98108466	Foreign	13-Apr-98	Pending
TRNSV-005AUG	A Device, System and Method for Interstitial Transvascular Intervention	57962/01	Foreign/ Divisional	10-Aug-01	Pending
TRNSV-005CA	A Device, System and Method for Interstitial Transvascular Intervention	2244066	Foreign	24-Jul-98	Pending
TRNSV-005CH	A Device, System and Method for Interstitial Transvascular Intervention	97193556.4	Foreign	2-Aug-98	Pending

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Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-005EP	A Device, System and Method for Interstitial Transvascular Intervention	97904081.3	Foreign	2-Aug-98	Pending
TRNSV-005IL	A Device, System and Method for Interstitial Transvascular Intervention	125415	Foreign	21-Jul-98	Pending
TRNSV-005JP	A Device, System and Method for Interstitial Transvascular Intervention	9-527804	Foreign	31-Jul-98	Pending
TRNSV-005MX	A Device, System and Method for Interstitial Transvascular Intervention	986138	Foreign	30-Jul-98	Pending
TRNSV-013AUG	Methods and Apparatus for Transmyocardial Revascularization	34403/02	Foreign	18-Apr-02	Pending
TRNSV-013BAUG	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	42371/02	Foreign	20-May-02	Pending
TRNSV-013BCA	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	2284720	Foreign	23-Sep-99	Pending
TRNSV-013BEP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	98915524.7	Foreign	23-Nov-99	Pending
TRNSV-013BIL	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	132195	Foreign	4-Oct-99	Pending
TRNSV-013BJP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	10-544160	Foreign	7-Oct-99	Pending
TRNSV-013BMX	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	949273	Foreign	11-Oct-99	Pending
TRNSV-013CA	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	2263672	Foreign	18-Feb-99	Pending
TRNSV-013EP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	97940595.8	Foreign	2-Mar-99	Pending
TRNSV-013JP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	10-511753	Foreign	25-Feb-99	Pending
TRNSV-013MX	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	991847	Foreign	25-Feb-99	Pending
TRNSV-014CA	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	2244079	Foreign	2-Aug-98	Pending
TRNSV-014CH	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	97193245.X	Foreign	2-Aug-98	Pending
TRNSV-014EP	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	97904086.2	Foreign	2-Aug-98	Pending
TRNSV-014IL	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	125416	Foreign	20-Jul-98	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-014JP	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	9-527810	Foreign	27-Jul-98	Pending
TRNSV-014MX	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	986192	Foreign	31-Jul-98	Pending
TRNSV-015CA	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	2285001	Foreign	28-Sep-99	Pending
TRNSV-015EP	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	98920833.5	Foreign	30-Sep-99	Pending
TRNSV-015IL	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	132197	Foreign	4-Oct-99	Pending
TRNSV-015JP	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	10-544059	Foreign	12-Oct-99	Pending
TRNSV-015MX	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	999274	Foreign	11-Oct-99	Pending
TRNSV-016AUG	Methods and Apparatus for Blocking Flow Through Blood Vessels	35101/01	Foreign/ Divisional	10-Apr-01	Pending
TRNSV-016CA	Methods and Apparatus for Blocking Flow Through Blood Vessels	2244080	Foreign	24-Jul-98	Pending
TRNSV-016CH	Methods and Apparatus for Blocking Flow Through Blood Vessels	97193313.8	Foreign	2-Aug-98	Pending
TRNSV-016EP	Methods and Apparatus for Blocking Flow Through Blood Vessels	97904084.7	Foreign	2-Aug-98	Pending
TRNSV-016IL	Methods and Apparatus for Blocking Flow Through Blood Vessels	125417	Foreign	20-Jul-98	Pending
TRNSV-016JP	Methods and Apparatus for Blocking Flow Through Blood Vessels	9-527807	Foreign	31-Jul-98	Pending
TRNSV-016MX	Methods and Apparatus for Blocking Flow Through Blood Vessels	986137	Foreign	30-Jul-98	Pending
TRNSV-017AU	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	81712/98	Foreign	25-Jun-98	Pending
TRNSV-017CA	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	2295133	Foreign	24-Dec-99	Pending
TRNSV-017EP	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	98-931643.5	Foreign	4-Jan-00	Pending
TRNSV-017IL	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	133670	Foreign	23-Dec-99	Pending

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Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-017JP	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	11-505072	Foreign	28-Dec-99	Pending
TRNSV-017MX	Transluminal Methods and Devices for Closing, Forming Attachments to, and/or Forming Anastomotic Junctions in, Luminal Anatomic	9911715	Foreign	15-Dec-99	Pending
TRNSV-022AU	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	13928/99	Foreign	12-May-00	Pending
TRNSV-022AUG	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	2003-200888	Foreign/ Divisional	5-Mar-03	Pending
TRNSV-022CA	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	2308475	Foreign	3-May-00	Pending
TRNSV-022EP	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	98957744-0	Foreign	4-May-00	Pending
TRNSV-022IL	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	135918	Foreign	12-May-00	Pending
TRNSV-022JP	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	2000-520711	Foreign	12-May-00	Pending
TRNSV-024AU	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	2845968	Foreign	6-Oct-00	Pending/ Allowed
TRNSV-024CA	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	2326769	Foreign	28-Sep-00	Pending
TRNSV-024EP	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	99916412.2	Foreign	27-Sep-00	Pending
TRNSV-024IL	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	138724	Foreign	27-Sep-00	Pending
TRNSV-024JP	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	2000-541938	Foreign	6-Oct-00	Pending
TRNSV-024MX	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	009748	Foreign	5-Oct-00	Pending
TRNSV-028AU	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	35477/99	Foreign	31-Mar-99	Pending
TRNSV-028CA	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	2324304	Foreign	18-Sep-00	Pending
TRNSV-028EP	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	99917329.7	Foreign	31-Mar-99	Pending

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Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-028IL	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	138666	Foreign	25-Sep-00	Pending
TRNSV-028JP	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	2000-540765	Foreign	2-Oct-00	Pending
TRNSV-028MX	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	9499	Foreign	28-Sep-00	Pending
TRNSV-029AU	Tissue penetrating catheters having integral imaging transducers and their methods of use	34594/99	Foreign	31-Mar-99	Pending
TRNSV-029CA	Tissue penetrating catheters having integral imaging transducers and their methods of use	2324210	Foreign	31-Mar-99	Pending
TRNSV-029EP	Tissue penetrating catheters having integral imaging transducers and their methods of use	99916238.1	Foreign	31-Mar-99	Pending
TRNSV-029IL	Tissue penetrating catheters having integral imaging transducers and their methods of use	TBA	Foreign	25-Sep-00	Pending
TRNSV-029JP	Tissue penetrating catheters having integral imaging transducers and their methods of use	2000-540872	Foreign	29-Sep-00	Pending
TRNSV-029MX	Tissue penetrating catheters having integral imaging transducers and their methods of use	9497	Foreign	28-Sep-00	Pending
TRNSV-046CA	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	2249237	Foreign	15-Sep-98	Pending
TRNSV-046EP	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	97907789.8	Foreign	15-Oct-98	Pending
TRNSV-046JP	Catheter Apparatus and Methodology for Generating a Fistula On-Demand Between Closely Associated Blood Vessels at a Pre-Chosen Anatomic Site In-Vivo	532616/97	Foreign	14-Sep-98	Pending
TRNSV-052AU	Device for forming holes in Tissue	58349/99	Foreign	8-Nov-99	Pending
TRNSV-052CA	Device for forming holes in Tissue	2290159	Foreign	16-Nov-99	Pending
TRNSV-052JP	Device for forming holes in tissue	352192/99	Foreign	5-Nov-99	Pending
TRNSV-052NO	Device for forming holes in tissue	19995739	Foreign	23-Nov-99	Pending
TRNSV-054AUG	Apparatus for Treating Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	91329/01	Foreign/ Divisional	14-Nov-01	Pending
TRNSV-054CA	Apparatus for Treating Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	2265775	Foreign	15-Mar-99	Pending
TRNSV-054EP	Apparatus for Treating Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	97941665.8	Foreign	30-Mar-99	Pending
TRNSV-054JP	Apparatus for Treating Ischemic Heart Disease by Providing Transvenous Myocardial Perfusion	10-513996	Foreign	16-Mar-99	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-056AU	Pressure-Controlled Continuous Coronary Sinus Occlusion Device and Methods of Use	39137/00	Foreign	24-Sep-01	Pending
TRNSV-056CA	Pressure-Controlled Continuous Coronary Sinus Occlusion Device and Methods of Use	2368163	Foreign	18-Sep-01	Pending
TRNSV-056EP	Pressure-Controlled Continuous Coronary Sinus Occlusion Device and Methods of Use	918304.7	Foreign	27-Sep-01	Pending
TRNSV-056JP	Pressure-Controlled Continuous Coronary Sinus Occlusion Device and Methods of Use	2000-606288	Foreign	25-Sep-01	Pending
14768-7010	Deformable Scaffolding Multicellular Stent	41875/99	Foreign	13-May-99	Issued
TRNSV-001AU	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	74316-96	Foreign	8-Apr-98	Issued 726713
TRNSV-001SI	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	9802432-6	Foreign	13-Apr-98	Issued 52000
TRNSV-003AU	A Device, System and Method for Interstitial Transvascular Intervention	76953/96	Foreign	8-Apr-98	Issued 729466
TRNSV-003SI	A Device, System and Method for Interstitial Transvascular Intervention	9802498-7	Foreign	13-Apr-98	Issued 52058
TRNSV-005AU	A Device, System and Method for Interstitial Transvascular Intervention	18471/97	Foreign	23-Jul-98	Issued 73341
TRNSV-013AU	Methods and Apparatus for Transmyocardial Revascularization	42340/97	Foreign	25-Aug-97	Issued 743142
TRNSV-013BAU	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	69686/98	Foreign	25-Oct-99	Issued 744343
TRNSV-014AU	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	18473/97	Foreign	23-Jul-98	Issued 723785
TRNSV-015AU	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	73581/98	Foreign	29-Oct-99	Issued 749373
TRNSV-016AU	Methods and Apparatus for Blocking Flow Through Blood Vessels	18472/97	Foreign	23-Jul-98	Issued 733332
212/047AU	Transvascular TMR Device and Method	730720	Foreign	10-Nov-97	Pending
24768-7015	Systems and Methods for Delivering Drugs to Selected Locations Within the Body	29054/99	Foreign	17-Mar-99	Pending
TRNSV-022MX	Devices for Forming and/or Maintaining Connections Between Adjacent Anatomical Conduits	004542	Foreign	11-May-00	Pending
TRNSV-052AU	Device for forming holes in Tissue	58349/99	Foreign	8-Nov-99	Pending
TRNSV-052CA	Device for forming holes in Tissue	2290159	Foreign	16-Nov-99	Pending
TRNSV-052JP	Device for forming holes in tissue	352192/99	Foreign	5-Nov-99	Pending
TRNSV-052NO	Device for forming holes in tissue	19995739	Foreign	23-Nov-99	Pending

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14768-7006	Deformable Scaffolding Multicellular Stent	2333764	Foreign	13-May-99	Pending
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14768-7011	Apparatus for Creating a Channel between Adjacent Body Lumens	2395246	Foreign	3-Jan-01	Pending
14768-7014	Apparatus for Creating a Channel between Adjacent Body Lumens	26288/01	Foreign	1-Mar-01	Pending
234/149AUZ	Deformable Scaffolding Multicellular Stent	2002302040	Foreign	15-Nov-02	Pending
234/149EP	Deformable Scaffolding Multicellular Stent	99925626.6	Foreign	13-May-99	Pending
259/301EP	Apparatus for Creating a Channel between Adjacent Body Lumens	TBA	Foreign	3-Jan-01	Pending
259/301JP	Apparatus for Creating a Channel between Adjacent Body Lumens	2001-549556	Foreign	3-Jan-01	Pending
TRNSV-001AUG	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	23046/01	Foreign	26-Feb-01	Pending
TRNSV-001CA	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	2234361	Foreign	8-Apr-98	Pending
TRNSV-001CH	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	96199063.5	Foreign	13-Apr-98	Pending
TRNSV-001EP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	969336499.1	Foreign	13-Apr-98	Pending
TRNSV-001GEP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	1120160.5	Foreign	22-Aug-01	Pending
TRNSV-001GIS	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	151563	Foreign	2-Sep-02	Pending
TRNSV-001IS	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	124038	Foreign	9-Apr-98	Pending
TRNSV-001JP	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	09/515,288	Foreign	13-Apr-98	Pending
TRNSV-001MX	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	982870	Foreign	13-Apr-98	Pending
TRNSV-001RU	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	98108600	Foreign	13-Apr-98	Pending

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TRNSV-003CH	A Device, System and Method for Interstitial Transvascular Intervention	96198967.X	Foreign	13-Apr-98	Pending
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TRNSV-003IL	A Device, System and Method for Interstitial Transvascular Intervention	124037	Foreign	9-Apr-98	Pending
TRNSV-003JP	A Device, System and Method for Interstitial Transvascular Intervention	9-515211	Foreign	10-Apr-98	Pending
TRNSV-003MX	A Device, System and Method for Interstitial Transvascular Intervention	982872	Foreign	13-Apr-98	Pending
TRNSV-003RU	A Device, System and Method for Interstitial Transvascular Intervention	98108466	Foreign	13-Apr-98	Pending
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TRNSV-005CA	A Device, System and Method for Interstitial Transvascular Intervention	2244066	Foreign	2-Aug-98	Pending
TRNSV-005CH	A Device, System and Method for Interstitial Transvascular Intervention	7193556.4	Foreign	2-Aug-98	Pending
TRNSV-005EP	A Device, System and Method for Interstitial Transvascular Intervention	97904081.3	Foreign	2-Aug-98	Pending
TRNSV-005IL	A Device, System and Method for Interstitial Transvascular Intervention	125415	Foreign	2-Aug-98	Pending
TRNSV-005JP	A Device, System and Method for Interstitial Transvascular Intervention	590477	Foreign	2-Aug-98	Pending
TRNSV-005MX	A Device, System and Method for Interstitial Transvascular Intervention	986138	Foreign	30-Jul-98	Pending
TRNSV-013AUG	Methods and Apparatus for Transmyocardial Revascularization	34403/02	Foreign	18-Apr-02	Pending
TRNSV-013BAUG	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	42371/02	Foreign	20-May-02	Pending
TRNSV-013BCA	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	2284720	Foreign	23-Sep-99	Pending
TRNSV-013BEP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	98915524.7	Foreign	13-Apr-98	Pending
TRNSV-013BIL	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	132195	Foreign	4-Oct-99	Pending

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TRNSV-013BMX	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	949273	Foreign	11-Oct-99	Pending
TRNSV-013CA	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	2263672	Foreign	18-Feb-99	Pending
TRNSV-013EP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	98915524.7	Foreign	26-Aug-96	Pending
TRNSV-013JP	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	10-511753	Foreign	25-Aug-97	Pending
TRNSV-013MX	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	991847	Foreign	25-Feb-99	Pending
TRNSV-014CA	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	2244079	Foreign	2-Aug-98	Pending
TRNSV-014CH	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	97193245.X	Foreign	2-Aug-98	Pending
TRNSV-014EP	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	97904086.2	Foreign	2-Aug-98	Pending
TRNSV-014IL	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	125416	Foreign	2-Aug-98	Pending
TRNSV-014JP	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	592668	Foreign	2-Aug-98	Pending
TRNSV-014MX	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	986192	Foreign	31-Jul-98	Pending
TRNSV-015CA	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	2285001	Foreign	10-Apr-98	Pending
TRNSV-015EP	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	98920833.5	Foreign	30-Sep-99	Pending
TRNSV-015IL	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	132197	Foreign	4-Oct-99	Pending
TRNSV-015JP	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	10-544059	Foreign	27-Aug-01	Pending

Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-015MX	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	999274	Foreign	10-Apr-98	Pending
TRNSV-024AU	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	34737/99	Foreign	6-Apr-99	Pending
TRNSV-024CA	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	2326769	Foreign	6-Apr-99	Pending
TRNSV-024EP	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	99916412.2	Foreign	27-Feb-00	Pending
TRNSV-024IL	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	138724	Foreign	27-Sep-00	Pending
TRNSV-024JP	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	2000-541938	Foreign	6-Oct-00	Pending
TRNSV-024MX	Transluminal Devices, Systems and Methods for Enlarging Interstitial Penetration Tracts	9748	Foreign	15-Oct-00	Pending
TRNSV-028AU	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	35477/99	Foreign	31-Mar-99	Pending
TRNSV-028CA	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	2324304	Foreign	18-Sep-00	Pending
TRNSV-028EP	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	99917329.7	Foreign	31-Mar-99	Pending
TRNSV-028IL	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	138666	Foreign	25-Sep-00	Pending
TRNSV-028JP	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	2000-540765	Foreign	2-Oct-00	Pending
TRNSV-028MX	Catheters, Systems and Methods for Percutaneous in Situ Arterio-Venous Bypass	9499	Foreign	28-Sep-00	Pending
TRNSV-029AU	Tissue penetrating catheters having integral imaging transducers and their methods of use	34594/99	Foreign	31-Mar-99	Pending
TRNSV-029CA	Tissue penetrating catheters having integral imaging transducers and their methods of use	2324210	Foreign	31-Mar-99	Pending
TRNSV-029EP	Tissue penetrating catheters having integral imaging transducers and their methods of use	99916238.1	Foreign	31-Mar-99	Pending
TRNSV-029IL	Tissue penetrating catheters having integral imaging transducers and their methods of use	TBA	Foreign	25-Sep-00	Pending
TRNSV-029JP	Tissue penetrating catheters having integral imaging transducers and their methods of use	2000-540872	Foreign	29-Sep-00	Pending
TRNSV-029MX	Tissue penetrating catheters having integral imaging transducers and their methods of use	9497	Foreign	28-Sep-00	Pending
TRNSV-052AU	Device for forming holes in Tissue	58349/99	Foreign	8-Nov-99	Pending
TRNSV-052CA	Device for forming holes in Tissue	2290159	Foreign	16-Nov-99	Pending

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Outside #	Title	Serial #	Filing Type	Date Filed	Status
TRNSV-052JP	Device for forming holes in tissue	352192/99	Foreign	5-Nov-99	Pending
TRNSV-052NO	Device for forming holes in tissue	19995739	Foreign	23-Nov-99	Pending
14768-7010	Deformable Scaffolding Multicellular Stent	41875/99	Foreign	13-May-99	Issued
TRNSV-001AU	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	23046/01	Foreign	8-Apr-98	Issued 726713
TRNSV-001SI	Methods and Apparatus for Bypassing Arterial Obstructions and/or Performing Other Transvascular Procedures	9802432-6	Foreign	13-Apr-98	Issued 52000
TRNSV-003AU	A Device, System and Method for Interstitial Transvascular Intervention	75953/96	Foreign	13-Apr-98	Issued 729466
TRNSV-003SI	A Device, System and Method for Interstitial Transvascular Intervention	9802498-7	Foreign	13-Apr-98	Issued 52058
TRNSV-005AU	A Device, System and Method for Interstitial Transvascular Intervention	18471/97	Foreign	23-Jul-98	Issued 733351
TRNSV-013AU	Methods and Apparatus for Transmyocardial Revascularization	PCT/US97/14801	Foreign	25-Aug-97	Issued 744343
TRNSV-013BAU	Methods and Apparatus for Transmyocardial Direct Coronary Revascularization	69686/98	Foreign	13-Apr-98	Issued 744343
TRNSV-014AU	Methods and Apparatus for Side to Side Connection of Blood Vessels or Other Anatomical Conduits	199718473	Foreign	2-Aug-98	Issued 723785
TRNSV-015AU	Catheters and Related Devices for Forming Passageways Between Blood Vessels or Other Anatomical Structures	73581/98	Foreign	10-Apr-98	Issued 749373

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Delaware

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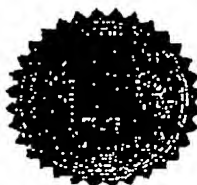
The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE RESTATED CERTIFICATE OF "MEDTRONIC AVE, INC.", CHANGING ITS NAME FROM "MEDTRONIC AVE, INC." TO "MEDTRONIC VASCULAR, INC.", FILED IN THIS OFFICE ON THE NINTH DAY OF SEPTEMBER, A.D. 2003, AT 1:20 O'CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.

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030580192

*Harriet Smith Windsor*Harriet Smith Windsor, Secretary of State
AUTHENTICATION: 2622839

DATE: 09-09-03

SEP-09-2003 11:40

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:19 PM 09/09/2003
FILED 01:20 PM 09/09/2003
SRV 030580192 - 2269660 FILE

AMENDED AND RESTATED CERTIFICATE OF INCORPORATION
OF
MEDTRONIC AVE, INC.

Medtronic AVE, Inc., a corporation organized and existing under the General Corporation Law of the State of Delaware, hereby certifies as follows:

1. The name of the corporation is "Medtronic AVE, Inc." Its original Certificate of Incorporation was filed with the Secretary of State on July 30, 1991 under the name "Applied Vascular Engineering, Inc." Through subsequent filings with the Secretary of State, the name was changed to "Arterial Vascular Engineering, Inc." on January 30, 1996 and to "Medtronic AVE, Inc." on January 28, 1999, as the result of a merger on that date with MAV Merger Corp., which was incorporated in the State of Delaware on November 24, 1998.

2. The Amended and Restated Certificate of Incorporation of the corporation, in the form attached hereto as Exhibit A, has been duly adopted by the corporation's Board of Directors and sole stockholder in accordance with the provisions of Sections 141, 228, 242 and 245 of the General Corporation Law of the State of Delaware pursuant to unanimous written consent with waiver of meeting notice.

3. The Amended and Restated Certificate of Incorporation so approved reads in full as set forth in Exhibit A hereto and is hereby incorporated by reference herein.

IN WITNESS WHEREOF, Medtronic AVE, Inc. has caused this Certificate to be signed by David J. Scott, its Vice President and Secretary, this 8th day of September 2003.

MEDTRONIC AVE, INC.



David J. Scott, Vice President and Secretary

ATTEST:


Carol E. Malkinson, Assistant Secretary

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Exhibit A

AMENDED AND RESTATED CERTIFICATE OF INCORPORATION
OF
MEDTRONIC VASCULAR, INC.

ARTICLE 1 - NAME

The name of the corporation shall be Medtronic Vascular, Inc.

ARTICLE 2 - REGISTERED OFFICE AND AGENT

The registered office of the corporation in the State of Delaware is 1209 Orange Street, in the City of Wilmington, County of New Castle, Delaware, 19801. The name of its registered agent at such address is The Corporation Trust Company.

ARTICLE 3 - PURPOSES

The nature of the business or purposes to be conducted or promoted by the corporation is to engage in any lawful acts and activities for which corporations may be organized under the General Corporation Law of Delaware.

ARTICLE 4 - STOCK

The aggregate number of shares the corporation has authority to issue shall be 2,500 shares of Common Stock, \$.01 par value. Holders of Common Stock shall be entitled to one vote for each share of Common Stock held of record.

ARTICLE 5 - RIGHTS OF STOCKHOLDERS

5.1) No Preemptive Rights. No holder of shares of the corporation of any class now or hereafter authorized has any preferential or preemptive right to subscribe for, purchase or receive any shares of the corporation of any class now or hereafter authorized, or any options or warrants for such shares, which may at any time be issued, sold or offered for sale by the corporation.

5.2) No Cumulative Voting Rights. No holder of shares of the corporation of any class now or hereafter authorized shall be entitled to cumulative voting.

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ARTICLE 6 - MEETINGS AND BOOKS

6.1) Meetings of Stockholders and Election of Directors. Meetings of stockholders may be held within or outside the State of Delaware, as the Bylaws may provide. Elections of directors need not be by written ballot unless and except to the extent that the Bylaws so provide.

6.2) Corporate Books. The books of the corporation may be kept within or (subject to any provision contained in the statutes) outside the State of Delaware at such place or places as may be designated from time to time by the Board of Directors or in the Bylaws of the corporation.

ARTICLE 7 - LIMITATION OF DIRECTOR LIABILITY

To the fullest extent permitted by the Delaware General Corporation Law, as the same exists or may hereafter be amended, a director of the corporation shall not be liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director. If the Delaware General Corporation Law is amended after the date of the filing of this Amended and Restated Certificate of Incorporation to authorize corporate action further eliminating or limiting the personal liability of directors, then the liability of a director of the corporation shall be eliminated or limited to the fullest extent permitted by the Delaware General Corporation Law, as so amended from time to time. No repeal or modification of this Article 7 by the stockholders shall adversely affect any right or protection of a director of the corporation existing by virtue of this Article 7 at the time of such repeal or modification.

ARTICLE 8 - BYLAWS

The Board of Directors is expressly authorized to make and alter Bylaws of this corporation, subject to the power of the stockholders to change or repeal such Bylaws and subject to any other limitations on such authority provided by the General Corporation Law of Delaware.